(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 14 October 2004 (14.10.2004)

PCT

(10) International Publication Number WO 2004/088805 A3

- (51) International Patent Classification7: H02B 1/30, 1/28
- (21) International Application Number:

PCT/BR2004/000048

(22) International Filing Date: 1

1 April 2004 (01.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

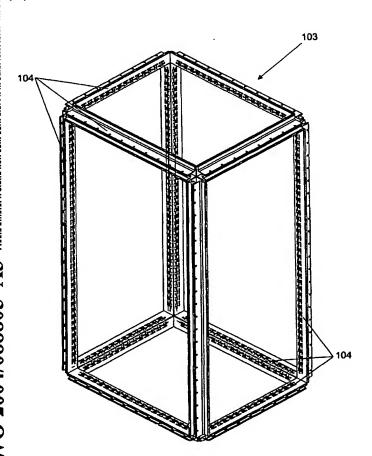
(30) Priority Data: 0301083-0

3 April 2003 (03.04.2003) BR

- (71) Applicant and
- (72) Inventor: FRANCISQUINI, Melquisedec [BR/BR]; Rua Dr. Oscar Monteiro de Barros, 580, apt. 11 Vila Suzana, Sao Paulo, 05641-010 (BR).
- (74) Agent: SIMBOLO MARCAS E PATENTES LTDA.; Rua Tabapua, 627, cj 44 - Itaim Bibi, Sao Paulo, 04533-012 (BR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: FRAME MEMBER FOR A SWITCHGEAR CABINET FRAME



(57) Abstract: Especially developed for the assembly of structures which are normally used in the most varied of cabinet types, these are also known as electrical panels, which in reality are cabinets with side closing doors to house a very large variety of electrical and electronic components and devices, encompassing a cross section (104) which on its exterior constitutes the means of support for the enclosures and accessories, whilst that on the inside, the same structure configures the uprights for the assembly of the electrical and electronic devices.

WO 2004/088805 A3



Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 18 November 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No

| FT/BR2004/000048

A. CLASSIF IPC 7	FICATION OF SUBJECT MATTER H02B1/30 H02B1/28							
According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIELDS SEARCHED								
Minimum do	cumentation searched (classification system followed by classification	n symbols)						
IPC 7 HO2B								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)								
EPO-In	ternal							
C. DOCUMENTS CONSIDERED TO BE RELEVANT								
Category •	Citation of document, with indication, where appropriate, of the rele	Relevant to claim No.						
X	EP 1 115 273 A (COST E L S P A)		1					
	11 July 2001 (2001-07-11) the whole document							
		A	4					
X	US 6 273 533 B1 (VOGEL GEORG ET / 14 August 2001 (2001-08-14)	AL)	1					
	the whole document		:					
x	US 2001/050516 A1 (TANIGUCHI YOUI	CHI ET	1					
	AL) 13 December 2001 (2001-12-13)							
	the whole document	•						
Х	US 6 428 127 B1 (RASMUSSEN KNUD)		1					
	6 August 2002 (2002-08-06) the whole document							
	the whole document							
Х	US 2003/048048 A1 (ALTENA HEINE)		1					
	13 March 2003 (2003-03-13) the whole document							
	,							
Further documents are listed in the continuation of box C. X Patent family members are listed in annex.								
* Special categories of clied documents : "T" later document published after the international filing date								
"A" document defining the general state of the art which is not clied to understand the principle or theory underlying the considered to be of particular relevance or priority date and not in conflict with the application but died to understand the principle or theory underlying the inventor								
"E" earlier document but published on or after the international "X" document of particular retevance; the claimed invention cannot be considered to								
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention								
citation or other special reason (as specified) cannot be considered to involve an inventive step when the document referring to an oral disclosure, use, exhibition or document is combined with one or more other such document.								
other means other means other means ments, such combination being obvious to a person skilled in the art.								
later than the priority date claimed "&" document member of the same patent family								
Date of the actual completion of the international search Date of mailing of the international search report								
6 October 2004		14/10/2004						
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2		Authorized officer						
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,	Castagné, O						
	Fax: (+31-70) 340-3016	castagne, o						

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PET/BR2004/000048

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1115273	A	11-07-2001	IT EP	MI20000004 U1 1115273 A2	05-07-2001 11-07-2001
US 6273533	B1	14-08-2001	DE DE EP JP	19817919 A1 29823391 U1 0951116 A1 11340663 A	21-10-1999 24-06-1999 20-10-1999 10-12-1999
US 2001050516	A1	13-12-2001	JP JP JP CN DE	2001257481 A 2002158470 A 2002158471 A 1320013 A 10110689 A1	21-09-2001 31-05-2002 31-05-2002 31-10-2001 03-01-2002
US 6428127	B1	06-08-2002	NO AU EP WO	981892 A 3737199 A 1075778 A1 9956511 A1	28-10-1999 16-11-1999 14-02-2001 04-11-1999
US 2003048048	A1	13-03-2003	DE WO EP	10136681 A1 03012947 A1 1413031 A1	26-06-2003 13-02-2003 28-04-2004